PERFORMANCE EVALUATION OF PUBLIC TRANSPORT (BUS) PATAS AND ECONOMIC ROUTE SURABAYA - MALANG

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Abstract

The research was motivated by the implementation of bus patas and economic route Surabaya – Malang which became one of the solutions in addressing transportation issues, because it needs a lot of input to meet the challenges for the implementation of economic and patas bus route Surabaya – Malang so it can be done in terms of reform and improvement of services for users of public transport.

The purpose of this study is to understand the quality of service assessment passenger patas and economics buses route Surabaya – Malang, know the factor that influence problem that can be formulated step repairing and improving quality of service quality improvement recommendations to the operator.

The discussion in this final project was to analyze the average travel time along the route, analyze demand and load factor and search load factor of five years to come. So that should be held a survey travel time and origin destination. To find out the load factor of five years from the method used furness.
From the analysis obtained the average travel time is 314 minutes on Wednesday morning (patas) and 338 minutes (economy), on Wednesday afternoon 327 minutes (patas) and 346 minutes (economic), Saturday morning 317 minutes (patas) and 339 minutes (economic), Saturday afternoon 332 minutes (patas) and 348 minutes (economic). From the analysis of primary data collection and survey the travel time of the obtained delay for Bus Patas route Surabaya - Malang on Wednesday morning was 42 minutes (patas) and 52 minutes (economic), on Wednesday afternoon was 47 minutes (patas) 52 minutes (economic). While the delay on Saturday morning was 45 minutes (patas) and 50 minutes (economic), Saturday afternoon was 47 minutes (patas) and 53 minutes (economic).

The total capacity of the fleet of buses Patas (Cv) 50 passenger and 60 passenger buses Economics. Load Factor (LF) patas bus on Wednesday was 0.59 (am), 0.47 (afternoon) and the economic bus is 0.79 (morning), 0.62 (afternoon). For Saturday's Load Factor (LF) patas bus is 0.61 (morning), 0.62 (pm) and the economic bus 0.81 (morning), 0.68 (afternoon). Added of forecasting passenger bus Patas and Economic route Surabaya - Malang Origin Destination Matrix obtained in 2017, so that it can be seen loading for each segment are: Wednesday was 0.62 (patas) and 0.83 (economic), while Saturday is 0.64 (patas) and 0.86 (economic).

Keywords: Surabaya - Malang, Patas and Economics Buses, Travel Time, Delay, Demand, Load Factor.